

National Capital Region Transportation Planning Board

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MEMORANDUM

10 November 2009

TO: Cooperative Forecasting and Data Subcommittee

FROM: Timothy Canan, AICP, Principal Planner
Department of Transportation Planning

SUBJECT: Comparison of Round 8.0 Jurisdictional Household Forecasts with Econometric Model

At the October 16, 2009 meeting of COG's Planning Directors Technical Advisory Committee (PDTAC), the Round 8.0 jurisdictional forecast totals were presented to the Committee, which then approved the totals following the review. During the meeting, it was also pointed out that when comparing the Round 8.0 jurisdictional household totals to the regional econometric household totals developed for Round 8.0, the jurisdictional totals exceeded the econometric totals by more than three (3) percent for the years 2015 through 2030. Historically, if the sum of the jurisdictional totals were within three percent of the econometric totals, it was considered acceptable and would not require reconciliation.

The Round 8.0 situation is somewhat unique because these differences in household forecasts only affect interim forecast years and do not affect the base year or final forecast year. As a result, if an adjustment were to be made, it would not necessitate any change in the total household growth forecasted for the 2010 – 2040 period; rather an adjustment would only be needed to the increment of change (i.e. 'timing' of development) during those interim years.

To better understand the magnitude of changes to jurisdictional household forecasts that would be needed if such an adjustment were to occur, TPB staff made time period adjustments to the jurisdictional household forecasts for 2015 through 2030 using a revised increment of change approach that resulted in the household forecasts summing to within three percent of the econometric totals for those years. Overall, these time period adjustments constituted modest changes for those interim forecast years. The following table shows the percent change in household forecasts between the 1983 MSA jurisdictional totals submitted for Round 8.0 and the time period-adjusted forecasts.

2010	2015	2020	2025	2030	2035	2040
0.0%	-1.0%	-1.0%	-1.2%	-0.5%	0.0%	0.0%

The jurisdictional breakdown of these adjustments is shown on the attachment. For most jurisdictions, the time period adjustments resulted in only minor decreases in household forecasts (less than two percent) for those years. The most substantive changes occurred

generally for those jurisdictions that did not submit forecasts for Round 8.0. All decreases in forecasts for those years are 'recovered' in the out-years using this approach since no absolute change in forecasts between the 2010 and 2040 would be necessary.

Adjusting the timing of the Round 8.0 household growth increment would also require some adjustments to the timing of the Round 8.0 population growth increments to maintain the integrity of predicted changes in average household size over the forecast period. In its analysis, TPB staff made corresponding time period adjustments to the population forecasts. The overall percent changes are noted in the following table and the jurisdictional-level analysis is shown on the attachment.

2010	2015	2020	2025	2030	2035	2040
0.0%	-0.8%	-0.9%	-1.1%	-0.5%	0.0%	0.0%

If there continues to be sufficient interest in bringing the jurisdictional household forecasts within three percent of the econometric model, perhaps this is an approach the Cooperative Forecasting and Data Subcommittee (CFDS) may wish to consider. Adjusting the increment of household change, which entails revising assumptions about the timing of residential development, can result in the jurisdictional forecasts being within three percent of the econometric totals while not affecting the total growth assumed for the entire forecast period.

ATTACHMENT

Final (June 2009) ROUND 8.0 ECONOMETRIC MODEL RESULTS (thousands) Scenario #1 - 1983 MSA Geography

Revised 10/15/09

	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>	<u>2035</u>	<u>2040</u>
TOTAL JOBS	3,145.4	3,231.7	3,442.2	3,656.1	3,846.1	4,045.3	4,236.0	4,428.3
TOTAL POPULATION	4,927.2	5,141.1	5,400.0	5,691.3	5,985.6	6,280.2	6,564.8	6,849.5
TOTAL HOUSEHOLDS	1,845.9	1,917.8	2,024.8	2,150.6	2,262.4	2,379.6	2,491.8	2,604.9

DRAFT ROUND 8.0 INTERMEDIATE SCENARIO (thousands) - 1983 MSA Geography

	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>	<u>2035</u>	<u>2040</u>
TOTAL JOBS	3,057.3	3,221.7	3,446.4	3,726.2	3,952.9	4,146.9	4,322.2	4,487.7
TOTAL POPULATION	4,951.0	5,226.2	5,527.9	5,831.0	6,113.9	6,352.2	6,553.6	6,737.1
TOTAL HOUSEHOLDS	1,859.1	1,970.5	2,106.0	2,237.4	2,359.3	2,463.8	2,551.3	2,630.4

1983 MSA Geography**Absolute and Percentage Difference between Draft Round 8.0 and the Round 8.0 Econometric Model (Round 8.0 minus Model Results)**

	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>	<u>2035</u>	<u>2040</u>
TOTAL JOBS	-88.1 -2.8%	-10.0 -0.3%	4.2 0.1%	70.1 1.9%	106.8 2.8%	101.6 2.5%	86.1 2.0%	59.4 1.3%
TOTAL POPULATION	23.8 0.5%	85.1 1.7%	127.9 2.4%	139.7 2.5%	128.3 2.1%	72.0 1.1%	-11.2 -0.2%	-112.4 -1.6%
TOTAL HOUSEHOLDS	13.2 0.7%	52.7 2.7%	81.2 4.0%	86.8 4.0%	96.9 4.3%	84.2 3.5%	59.5 2.4%	25.5 1.0%

For Reconciliation Purposes:

The sum of the local government employment, population, and household forecasts for each forecast year must be within three percent of the regional econometric model projections for that year.

"Time Period-Adjusted" Round 8.0 Household Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	265.2	283.8	293.1	304.8	314.4	325.5	339.2
Arlington County	100.5	107.0	113.2	116.6	120.4	122.7	124.2
City of Alexandria	70.3	71.8	76.5	80.8	85.2	88.7	92.7
Central Jurisdictions	435.9	462.6	482.8	502.2	519.9	537.0	556.1
Montgomery County (1)	360.5	374.5	395.2	413.2	437.4	453.0	463.0
Rockville (2)	24.3	26.3	28.4	29.6	31.3	33.0	34.5
Gaithersburg (2)	22.1	23.4	25.4	27.6	30.3	32.2	33.8
Prince George's County	306.0	317.1	328.9	337.8	347.4	355.3	360.1
Fairfax County	386.0	400.4	422.6	441.9	460.3	475.4	483.2
City of Fairfax (3)	8.6	8.8	9.1	9.3	9.7	10.0	10.3
City of Falls Church	5.0	5.8	6.3	6.7	7.0	7.3	7.4
Inner Suburbs	1066.1	1106.6	1162.0	1209.0	1261.8	1301.0	1324.0
Loudoun County	102.0	111.0	125.5	139.3	148.9	155.0	158.3
Prince William County	135.2	149.9	165.1	177.6	190.2	200.8	207.6
City of Manassas	14.1	14.7	15.4	16.1	17.0	17.8	18.6
City of Manassas Park	5.0	5.3	5.3	5.3	5.3	5.4	5.4
Calvert County (4)	32.0	34.0	35.7	36.9	38.1	39.3	40.3
Charles County (4)	51.0	56.5	63.2	69.4	75.2	80.9	85.9
Frederick County	87.7	94.7	102.8	110.7	122.9	134.8	147.5
Stafford County (5)	41.4	50.5	57.3	63.8	71.6	79.4	86.8
Outer Suburbs	468.5	516.5	570.3	619.1	669.2	713.3	750.3
MSA REGIONAL TOTAL	1970.5	2085.6	2215.1	2330.3	2451.0	2551.3	2630.4
Econometric Model + 3%		2085.6	2215.1	2330.3	2451.0		

Absolute Adjustments to Submitted Round 8.0 Household Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	0.0	-3.3	-3.4	-4.1	-2.9	0.0	0.0
Arlington County	0.0	-1.1	-1.2	-1.4	-0.9	0.0	0.0
City of Alexandria	0.0	-0.3	-0.3	-0.6	0.0	0.0	0.0
Central Jurisdictions	0.0	-4.7	-5.0	-6.1	-3.8	0.0	0.0
Montgomery County (1)	0.0	-2.5	-2.8	-3.8	-0.6	0.0	0.0
Rockville (2)	0.0	-0.3	-0.4	-0.4	-0.2	0.0	0.0
Gaithersburg (2)	0.0	-0.2	-0.3	-0.4	0.0	0.0	0.0
Prince George's County	0.0	-2.0	-2.1	-2.7	-1.4	0.0	0.0
Fairfax County	0.0	-2.6	-2.9	-4.0	-1.6	0.0	0.0
City of Fairfax (3)	0.0	0.0	0.0	-0.1	0.0	0.0	0.0
City of Falls Church	0.0	-0.1	-0.1	-0.2	-0.1	0.0	0.0
Inner Suburbs	0.0	-7.2	-8.0	-10.7	-3.7	0.0	0.0
Loudoun County	0.0	-1.6	-1.8	-2.6	-1.3	0.0	0.0
Prince William County	0.0	-2.6	-2.8	-3.5	-1.9	0.0	0.0
City of Manassas	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0
City of Manassas Park	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calvert County (4)	0.0	-0.3	-0.4	-0.4	-0.3	0.0	0.0
Charles County (4)	0.0	-1.0	-1.1	-1.4	-0.7	0.0	0.0
Frederick County	0.0	-1.2	-1.4	-1.8	-0.2	0.0	0.0
Stafford County (5)	0.0	-1.6	-1.7	-2.1	-1.1	0.0	0.0
Outer Suburbs	0.0	-8.5	-9.3	-12.1	-5.5	0.0	0.0
MSA REGIONAL TOTAL	0.0	-20.4	-22.3	-29.0	-12.9	0.0	0.0
Econometric Model + 3%							

Percent Adjustments to Submitted Round 8.0 Household Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	0.0%	-1.2%	-1.2%	-1.3%	-0.9%	0.0%	0.0%
Arlington County	0.0%	-1.1%	-1.1%	-1.2%	-0.8%	0.0%	0.0%
City of Alexandria	0.0%	-0.4%	-0.4%	-0.7%	0.0%	0.0%	0.0%
Central Jurisdictions	0.0%	-1.0%	-1.0%	-1.2%	-0.7%	0.0%	0.0%
Montgomery County (1)	0.0%	-0.7%	-0.7%	-0.9%	-0.1%	0.0%	0.0%
Rockville (2)	0.0%	-1.3%	-1.3%	-1.5%	-0.7%	0.0%	0.0%
Gaithersburg (2)	0.0%	-0.9%	-1.0%	-1.3%	0.0%	0.0%	0.0%
Prince George's County	0.0%	-0.6%	-0.6%	-0.8%	-0.4%	0.0%	0.0%
Fairfax County	0.0%	-0.6%	-0.7%	-0.9%	-0.3%	0.0%	0.0%
City of Fairfax (3)	0.0%	-0.3%	-0.4%	-0.5%	0.0%	0.0%	0.0%
City of Falls Church	0.0%	-2.3%	-2.2%	-2.5%	-2.0%	0.0%	0.0%
Inner Suburbs	0.0%	-0.6%	-0.7%	-0.9%	-0.3%	0.0%	0.0%
Loudoun County	0.0%	-1.4%	-1.4%	-1.8%	-0.9%	0.0%	0.0%
Prince William County	0.0%	-1.7%	-1.7%	-2.0%	-1.0%	0.0%	0.0%
City of Manassas	0.0%	-0.7%	-0.7%	-1.0%	-0.2%	0.0%	0.0%
City of Manassas Park	0.0%	-0.8%	-0.9%	-0.9%	-0.9%	0.0%	0.0%
Calvert County (4)	0.0%	-1.0%	-1.0%	-1.2%	-0.8%	0.0%	0.0%
Charles County (4)	0.0%	-1.7%	-1.7%	-2.0%	-0.9%	0.0%	0.0%
Frederick County	0.0%	-1.3%	-1.3%	-1.6%	-0.1%	0.0%	0.0%
Stafford County (5)	0.0%	-3.1%	-2.9%	-3.2%	-1.4%	0.0%	0.0%
Outer Suburbs	0.0%	-1.6%	-1.6%	-1.9%	-0.8%	0.0%	0.0%
MSA REGIONAL TOTAL	0.0%	-1.0%	-1.0%	-1.2%	-0.5%	0.0%	0.0%
Econometric Model + 3%							

Submitted Round 8.0 Household Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	265.2	287.2	296.6	309.0	317.2	325.5	339.2
Arlington County	100.5	108.1	114.4	118.0	121.3	122.7	124.2
City of Alexandria	70.3	72.0	76.8	81.3	85.2	88.7	92.7
Central Jurisdictions	435.9	467.3	487.8	508.3	523.7	537.0	556.1
Montgomery County (1)	360.5	377.0	398.0	417.0	438.0	453.0	463.0
Rockville (2)	24.3	26.6	28.8	30.0	31.5	33.0	34.5
Gaithersburg (2)	22.1	23.6	25.7	27.9	30.4	32.2	33.8
Prince George's County	306.0	319.1	331.1	340.5	348.8	355.3	360.1
Fairfax County	386.0	403.0	425.5	445.9	461.9	475.4	483.2
City of Fairfax (3)	8.6	8.8	9.1	9.4	9.7	10.0	10.3
City of Falls Church	5.0	5.9	6.4	6.9	7.1	7.3	7.4
Inner Suburbs	1,066.1	1,113.7	1,170.0	1,219.7	1,265.5	1,301.0	1,324.0
Loudoun County	102.0	112.6	127.3	141.9	150.2	155.0	158.3
Prince William County	135.2	152.5	167.9	181.1	192.0	200.8	207.6
City of Manassas	14.1	14.8	15.5	16.3	17.1	17.8	18.6
City of Manassas Park	5.0	5.3	5.4	5.4	5.4	5.4	5.4
Calvert County (4)	32.0	34.3	36.0	37.4	38.3	39.3	40.3
Charles County (4)	51.0	57.5	64.3	70.8	75.9	80.9	85.9
Frederick County	87.7	95.9	104.1	112.5	123.1	134.8	147.5
Stafford County (5)	41.4	52.1	59.0	65.9	72.7	79.4	86.8
Outer Suburbs	468.5	525.0	579.5	631.3	674.7	713.3	750.3
MSA REGIONAL TOTAL	1,970.5	2,106.0	2,237.4	2,359.3	2,463.9	2,551.3	2,630.4
Econometric Model + 3%			2085.6	2215.1	2330.3	2451.0	

CALCULATIONS TO COMPUTE "ADJUSTED TIME PERIOD" HOUSEHOLD INCREMENTS 2010-2035													
JURISDICTION	2005-2010	2010-2015	2015-2020		2020-2025		2025-2030		2030-2035		2035-2040		
	Absolute 2005 Change	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	
District of Columbia	253.3	11.8	22.0	18.7	9.4	9.3	12.4	11.7	8.3	9.6	8.3	11.1	13.7
Arlington County	92.2	8.3	7.6	6.5	6.3	6.2	3.6	3.4	3.3	3.8	1.4	2.3	1.5
City of Alexandria	66.3	3.9	1.7	1.5	4.8	4.7	4.5	4.3	3.8	4.4	3.6	3.6	4.0
Central Jurisdictions	411.9	24.1	31.4	26.6	20.5	20.3	20.5	19.4	15.4	17.8	13.3	17.0	19.2
Montgomery County (1)	347.5	13.0	16.5	14.0	21.0	20.7	19.0	18.0	21.0	24.2	15.0	15.6	10.0
Rockville (2)	23.0	1.3	2.3	2.0	2.1	2.1	1.3	1.2	1.5	1.7	1.5	1.7	1.5
Gaithersburg (2)	21.7	0.4	1.5	1.2	2.1	2.1	2.3	2.1	2.4	2.8	1.9	1.9	1.5
Prince George's County	299.9	6.1	13.1	11.1	12.0	11.8	9.4	8.9	8.3	9.6	6.5	7.9	4.8
Fairfax County	375.8	10.1	17.0	14.4	22.5	22.2	20.5	19.4	16.0	18.4	13.5	15.1	7.8
City of Fairfax (3)	8.4	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
City of Falls Church	4.6	0.4	0.9	0.8	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.3	0.1
Inner Suburbs	1,036.2	29.9	47.6	40.5	56.3	55.5	49.7	46.9	45.8	52.8	35.5	39.2	23.0
Loudoun County	87.5	14.6	10.5	8.9	14.7	14.5	14.6	13.8	8.4	9.6	4.8	6.1	3.3
Prince William County	118.9	16.3	17.2	14.6	15.4	15.2	13.2	12.5	10.9	12.6	8.7	10.6	6.8
City of Manassas	12.8	1.3	0.7	0.6	0.8	0.7	0.8	0.7	0.8	0.9	0.8	0.8	0.8
City of Manassas Park	4.2	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calvert County (4)	29.9	2.1	2.3	1.9	1.7	1.7	1.3	1.3	1.0	1.1	1.0	1.3	1.0
Charles County (4)	47.4	3.5	6.6	5.6	6.8	6.7	6.5	6.2	5.0	5.8	5.0	5.7	5.0
Frederick County	79.5	8.2	8.2	7.0	8.2	8.1	8.3	7.9	10.6	12.3	11.7	11.8	12.8
Stafford County (5)	30.7	10.7	10.7	9.1	6.9	6.8	6.9	6.5	6.7	7.8	6.7	7.8	7.4
Outer Suburbs	411.0	57.5	56.5	48.0	54.6	53.8	51.7	48.9	43.4	50.1	38.6	38.6	37.0
MSA REGIONAL TOTAL	1,859.0	111.5	135.5	115.1	131.4	129.5	121.9	115.2	104.6	120.7	87.4	94.9	79.1
Econometric Model + 3%				-20.4		-1.9		-6.7		16.1		7.4	

"Time Period-Adjusted" Round 8.0 Population Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	605.5	644.6	662.6	685.3	706.2	730.4	760.6
Arlington County	212.3	222.9	233.5	239.0	245.8	249.6	252.0
City of Alexandria	146.3	148.0	156.0	164.0	172.2	178.7	186.2
Central Jurisdictions	964.1	1015.6	1052.0	1088.4	1124.2	1158.7	1198.7
Montgomery County (1)	964.1	995.4	1,042.7	1,084.3	1,133.9	1,166.0	1,183.0
Rockville (2)	62.5	66.6	71.0	73.6	77.2	80.8	83.9
Gaithersburg (2)	58.3	61.5	66.5	71.2	76.5	81.0	84.6
Prince George's County	846.2	869.1	891.4	908.0	925.2	939.9	950.1
Fairfax County	1,056.4	1,088.4	1,140.7	1,186.1	1,228.8	1,263.4	1,281.3
City of Fairfax (3)	23.2	23.7	24.5	24.8	25.1	26.0	27.3
City of Falls Church	11.3	12.7	13.6	14.4	14.9	15.5	15.7
Inner Suburbs	2901.2	2989.3	3113.0	3217.6	3328.0	3410.8	3457.4
Loudoun County	289.4	313.6	352.2	389.4	414.7	430.6	439.1
Prince William County	403.1	437.5	472.8	501.9	531.2	556.2	572.5
City of Manassas	40.4	41.5	43.1	44.6	46.4	48.1	49.7
City of Manassas Park	15.0	15.6	16.4	16.4	16.4	16.9	17.0
Calvert County (4)	91.7	95.8	99.7	102.3	104.5	107.0	108.9
Charles County (4)	145.0	158.5	174.6	189.6	202.4	215.3	226.5
Frederick County	243.2	262.2	284.2	305.4	339.3	371.8	406.9
Stafford County (5)	133.2	152.8	173.2	192.8	216.2	238.2	260.3
Outer Suburbs	1360.9	1477.5	1616.2	1742.4	1871.1	1984.2	2081.0
MSA REGIONAL TOTAL	5,226.2	5,482.4	5,781.2	6,048.4	6,323.2	6,553.7	6,737.1
Econometric Model	5,141.1	5,400.0	5,691.3	5,985.6	6,280.2	6,564.8	6,849.5
	1.7%	1.5%	1.6%	1.0%	0.7%	-0.2%	-1.6%

Absolute Adjustments to Submitted Round 8.0 Population Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	0.0	-6.9	-7.2	-8.5	-5.7	0.0	0.0
Arlington County	0.0	-1.9	-2.0	-2.4	-1.5	0.0	0.0
City of Alexandria	0.0	-0.3	-0.4	-0.9	0.2	0.0	0.0
Central Jurisdictions	0.0	-9.1	-9.7	-11.8	-7.0	0.0	0.0
Montgomery County (1)	0.0	-5.6	-6.3	-8.7	-2.1	0.0	0.0
Rockville (2)	0.0	-0.7	-0.8	-0.9	-0.5	0.0	0.0
Gaithersburg (2)	0.0	-0.6	-0.6	-0.9	-0.2	0.0	0.0
Prince George's County	0.0	-4.1	-4.4	-5.4	-3.1	0.0	0.0
Fairfax County	0.0	-5.7	-6.4	-9.1	-3.4	0.0	0.0
City of Fairfax (3)	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0
City of Falls Church	0.0	-0.2	-0.3	-0.3	-0.2	0.0	0.0
Inner Suburbs	0.0	-15.6	-17.4	-23.5	-8.8	0.0	0.0
Loudoun County	0.0	-4.3	-4.9	-7.0	-3.7	0.0	0.0
Prince William County	0.0	-6.1	-6.6	-8.3	-4.4	0.0	0.0
City of Manassas	0.0	-0.2	-0.2	-0.3	-0.1	0.0	0.0
City of Manassas Park	0.0	-0.1	-0.1	-0.3	-0.4	0.0	0.0
Calvert County (4)	0.0	-0.7	-0.8	-0.9	-0.6	0.0	0.0
Charles County (4)	0.0	-2.4	-2.6	-3.5	-1.8	0.0	0.0
Frederick County	0.0	-3.4	-3.7	-4.9	-0.4	0.0	0.0
Stafford County (5)	0.0	-3.5	-3.8	-4.9	-1.8	0.0	0.0
Outer Suburbs	0.0	-20.7	-22.7	-30.2	-13.2	0.0	0.0
MSA REGIONAL TOTAL	0.0	-45.4	-49.8	-65.5	-29.0	0.0	0.0
Econometric Model							

Percent Adjustments to Submitted Round 8.0 Population Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	0.0%	-1.1%	-1.1%	-1.2%	-0.8%	0.0%	0.0%
Arlington County	0.0%	-0.8%	-0.9%	-1.0%	-0.6%	0.0%	0.0%
City of Alexandria	0.0%	-0.2%	-0.3%	-0.5%	0.1%	0.0%	0.0%
Central Jurisdictions	0.0%	-0.9%	-0.9%	-1.1%	-0.6%	0.0%	0.0%
Montgomery County (1)	0.0%	-0.6%	-0.6%	-0.8%	-0.2%	0.0%	0.0%
Rockville (2)	0.0%	-1.1%	-1.1%	-1.3%	-0.6%	0.0%	0.0%
Gaithersburg (2)	0.0%	-0.9%	-0.9%	-1.3%	-0.3%	0.0%	0.0%
Prince George's County	0.0%	-0.5%	-0.5%	-0.6%	-0.3%	0.0%	0.0%
Fairfax County	0.0%	-0.5%	-0.6%	-0.8%	-0.3%	0.0%	0.0%
City of Fairfax (3)	0.0%	-0.4%	-0.4%	-0.5%	-0.3%	0.0%	0.0%
City of Falls Church	0.0%	-1.9%	-1.8%	-2.0%	-1.6%	0.0%	0.0%
Inner Suburbs	0.0%	-0.5%	-0.6%	-0.7%	-0.3%	0.0%	0.0%
Loudoun County	0.0%	-1.4%	-1.4%	-1.8%	-0.9%	0.0%	0.0%
Prince William County	0.0%	-1.4%	-1.4%	-1.6%	-0.8%	0.0%	0.0%
City of Manassas	0.0%	-0.5%	-0.5%	-0.7%	-0.2%	0.0%	0.0%
City of Manassas Park	0.0%	-0.8%	-0.8%	-1.7%	-2.3%	0.0%	0.0%
Calvert County (4)	0.0%	-0.7%	-0.8%	-0.9%	-0.6%	0.0%	0.0%
Charles County (4)	0.0%	-1.5%	-1.5%	-1.8%	-0.9%	0.0%	0.0%
Frederick County	0.0%	-1.3%	-1.3%	-1.6%	-0.1%	0.0%	0.0%
Stafford County (5)	0.0%	-2.2%	-2.1%	-2.5%	-0.8%	0.0%	0.0%
Outer Suburbs	0.0%	-1.4%	-1.4%	-1.7%	-0.7%	0.0%	0.0%
MSA REGIONAL TOTAL	0.0%	-0.8%	-0.9%	-1.1%	-0.5%	0.0%	0.0%
Econometric Model							

Submitted Round 8.0 Population Totals

JURISDICTION	2010	2015	2020	2025	2030	2035	2040
District of Columbia	605.5	651.5	669.8	693.8	711.9	730.4	760.6
Arlington County	212.3	224.8	235.5	241.4	247.3	249.6	252.0
City of Alexandria	146.3	148.4	156.4	164.9	172.0	178.7	186.2
Central Jurisdictions	964.1	1,024.7	1,061.7	1,100.1	1,131.2	1,158.7	1,198.7
Montgomery County (1)	964.1	1,001.0	1,049.0	1,093.0	1,136.0	1,166.0	1,183.0
Rockville (2)	62.5	67.3	71.8	74.5	77.6	80.8	83.9
Gaithersburg (2)	58.3	62.0	67.2	72.1	76.7	81.0	84.6
Prince George's County	846.2	873.1	895.7	913.4	928.3	939.9	950.1
Fairfax County	1,056.4	1,094.1	1,147.2	1,195.1	1,232.2	1,263.4	1,281.3
City of Fairfax (3)	23.2	23.8	24.6	24.9	25.2	26.0	27.3
City of Falls Church	11.3	12.9	13.9	14.7	15.1	15.5	15.7
Inner Suburbs	2,901.2	3,005.0	3,130.4	3,241.2	3,336.8	3,410.8	3,457.4
Loudoun County	289.4	317.9	357.0	396.4	418.3	430.6	439.1
Prince William County	403.1	443.6	479.4	510.2	535.6	556.2	572.5
City of Manassas	40.4	41.8	43.3	44.9	46.5	48.1	49.7
City of Manassas Park	15.0	15.8	16.5	16.7	16.8	16.9	17.0
Calvert County (4)	91.7	96.5	100.4	103.3	105.1	107.0	108.9
Charles County (4)	145.0	161.0	177.2	193.1	204.2	215.3	226.5
Frederick County	243.2	265.6	287.9	310.4	339.7	371.8	406.9
Stafford County (5)	133.2	156.2	177.0	197.7	218.0	238.2	260.3
Outer Suburbs	1,360.9	1,498.2	1,638.9	1,772.7	1,884.3	1,984.2	2,081.0
MSA REGIONAL TOTAL	5,226.2	5,527.9	5,831.0	6,113.9	6,352.2	6,553.7	6,737.1
Econometric Model							

CALCULATIONS TO COMPUTE "ADJUSTED TIME PERIOD" POPULATION INCREMENTS 2010-2035													
JURISDICTION	2005-2010	2010-2015	2015-2020		2020-2025		2025-2030		2030-2035		2035-2040		
	Absolute 2005 Change	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	"NEW" INCREMENT	Absolute Change	
District of Columbia	582.0	23.5	46.0	39.1	18.3	18.0	24.0	22.7	18.1	20.8	18.5	24.2	30.2
Arlington County	199.2	13.1	12.5	10.6	10.7	10.5	5.9	5.6	5.9	6.8	2.3	3.8	2.4
City of Alexandria	135.9	10.4	2.1	1.8	8.1	8.0	8.5	8.0	7.1	8.2	6.7	6.5	7.4
Central Jurisdictions	917.1	47.0	60.6	51.5	37.0	36.5	38.4	36.3	31.0	35.8	27.5	34.5	40.1
Montgomery County (1)	929.1	35.0	36.9	31.3	48.0	47.3	44.0	41.6	43.0	49.6	30.0	32.1	17.0
Rockville (2)	59.6	2.9	4.9	4.1	4.5	4.4	2.7	2.5	3.1	3.6	3.1	3.6	3.1
Gaithersburg (2)	57.2	1.1	3.7	3.2	5.2	5.1	4.9	4.6	4.6	5.3	4.4	4.6	3.6
Prince George's County	835.7	10.5	27.0	22.9	22.6	22.3	17.7	16.7	14.9	17.2	11.6	14.7	10.2
Fairfax County	1,029.7	26.7	37.7	32.0	53.0	52.3	48.0	45.3	37.0	42.7	31.2	34.6	17.9
City of Fairfax (3)	22.7	0.5	0.6	0.5	0.8	0.8	0.3	0.3	0.3	0.3	0.8	0.9	1.3
City of Falls Church	10.6	0.7	1.6	1.4	1.0	1.0	0.8	0.8	0.4	0.5	0.4	0.6	0.2
Inner Suburbs	2,827.8	73.4	103.8	88.1	125.5	123.6	110.7	104.7	95.6	110.3	74.0	82.9	46.6
Loudoun County	247.3	42.1	28.5	24.2	39.1	38.6	39.4	37.2	21.9	25.3	12.3	15.9	8.5
Prince William County	354.3	48.8	40.5	34.4	35.9	35.4	30.7	29.0	25.5	29.4	20.6	25.0	16.3
City of Manassas	37.6	2.7	1.4	1.2	1.6	1.6	1.6	1.5	1.6	1.8	1.6	1.7	1.6
City of Manassas Park	12.9	2.1	0.8	0.7	0.8	0.8	0.2	0.0	0.1	0.0	0.1	0.5	0.1
Calvert County (4)	86.5	5.3	4.8	4.0	3.9	3.9	2.8	2.6	1.8	2.1	1.9	2.5	1.9
Charles County (4)	136.6	8.4	16.0	13.6	16.3	16.0	15.9	15.0	11.1	12.8	11.1	13.0	11.2
Frederick County	220.9	22.3	22.3	19.0	22.3	22.0	22.5	21.2	29.3	33.8	32.1	32.5	35.1
Stafford County (5)	110.1	23.1	23.1	19.6	20.7	20.4	20.7	19.6	20.2	23.4	20.2	22.0	22.1
Outer Suburbs	1,206.1	154.7	137.4	116.7	140.7	138.7	133.7	126.2	111.6	128.7	99.9	113.1	96.9
MSA REGIONAL TOTAL	4,951.0	275.1	301.7	256.3	303.2	298.8	282.9	267.2	238.3	274.8	201.5	230.4	183.5